

PENDING CLAIMS AS AMENDED

Please amend claims 9 and 11 and add new claims 15-22 as follows:

1. (Original) In a wireless communication system having a rake receiver with multiple fingers, a method comprising:
 - determining a lock state for a first finger of the multiple fingers;
 - determining a comparison of received signal energy for the first finger to a threshold value if the first finger is out of lock; and
 - adjusting a lock filter for processing signals received on the first finger in response to the comparison.
2. (Original) The method as in claim 1, further comprising:
 - waiting a first time period if the first finger is out of lock before adjusting the lock filter.
3. (Original) The method of claim 1, wherein adjusting the lock filter further comprises:
 - providing an output of the lock filter equal to the received signal when the energy of the received signal is greater than the threshold; and
 - increasing an energy level of the lock filter when the energy of the received signal is less than the threshold.
4. (Original) The method of claim 1, further comprising:
 - determining a comparison of filtered signal energy for the first finger to a second threshold after adjusting the lock filter; and
 - reassigning a path to the first finger in response to the comparison.
5. (Original) The method of claim 4, further comprising:
 - maintaining path assignments to the multiple fingers for a predetermined time period.

6. (Currently Amended) The method of claim 1, further comprising:
determining if a transmitter of the received signal is in soft ~~hand-off~~ handoff; and
providing power control instructions as a function of the energy of the received signal if
the transmitter is in soft ~~hand-off~~ handoff.
7. (Original) The wireless apparatus performing the method of claim 5, further
comprising:
instructing the transmitter to gradually adjust transmit power.
8. (Original) A transceiver, comprising:
a rake receiver having a plurality of fingers, the plurality of fingers adapted to
receive multipath signals; and
a lock detector coupled to the rake receiver operative to adjust signal filtering
based on the lock states of the fingers.
9. (Currently Amended) The transceiver of ~~claim 7~~ claim 8, wherein the lock
detector is further operative to compare received energy of the received signal to a first
energy threshold.
10. (Original) The transceiver of claim 8, wherein the lock detector comprises:
a lock filter operative to filter the received signal; and
a filter adjustment means operative to adjust the lock filter in response to the lock
detector.
11. (Currently Amended) The transceiver of ~~claim 9~~ claim 10, wherein the filter
adjustment means waits a predetermined time period prior to adjusting the lock filter.

12. (Withdrawn) A method for tracking a mobile station in a wireless communication system, comprising:

determining if the mobile station is in soft hand-off;
ignoring a lock state of a rake antenna if the mobile station is in soft hand-off; and
transmitting a predetermined power control pattern if the mobile station is not in soft hand-off.

13. (Withdrawn) The method of claim 12, further comprising:

adjusting the power control as a function of received signal energy if the mobile station is in soft hand-off.

14. (Currently Amended) A wireless apparatus, comprising:

filter means to filter a received signal from a first propagation path;
comparison means operative to compare the received signal to a threshold value;
and
filter adjustment means operative to adjust the filter means in response to the comparison means.

Kindly add claims 15-22 as follows:

15. (New) The wireless apparatus according to claim 14, wherein said filter adjustment means comprises:

a comparator having a plurality of inputs, and at least one output;
a threshold generator having at least one output operably connected to a first of said plurality of inputs of said comparator; and
an AND gate having a plurality of inputs and at least one output, wherein a first of said plurality of inputs is operably connected to said at least one output of said comparator and said at least one output is operably connected to a first of said at least one input of said filter means.

16. (New) The wireless apparatus according to claim 14, wherein said filter means is an infinite impulse response filter.

17. (New) The wireless apparatus according to claim 14, further comprising:
a communication bus;
a threshold calculation unit; and
a first threshold generator operably connected to an input of said comparison means and operably connected to said threshold calculation unit via said communication bus, wherein said first threshold generator is adapted to dynamically change.

18. (New) The wireless apparatus according to claim 15, wherein said filter adjustment means further comprises:
a timer having at least one output, wherein said output is operably connected to a second of said plurality of inputs of said AND gate.

19. (New) A lock detector, comprising:
a lock filter having at least one input and at least one output;
a first comparator having a plurality of inputs, and at least one output, wherein a first of said plurality of inputs is operably connected to said at least one output of said lock filter;
a first threshold generator having at least one output operably connected to a second of said plurality of inputs of said comparator;
a second comparator having a plurality of inputs, and at least one output;
a second threshold generator having at least one output operably connected to a first of said plurality of inputs of said second comparator; and
an AND gate having a plurality of inputs and at least one output, wherein a first of said plurality of inputs is operably connected to said at least one output of said second comparator and said at least one output is operably connected to a first of said at least one input of said lock filter.

20. (New) The lock detector according to claim 19, wherein said lock detector further comprises:

a timer having at least one output, wherein said output is operably connected to a second of said plurality of inputs of said AND gate.

21. (New) The lock detector according to claim 19, wherein said lock filter is an infinite impulse response filter.

22. (New) The lock detector according to claim 19, wherein said first threshold generator is operably connected to a threshold calculation unit by a communication bus, whereby said first threshold generator is adapted to dynamically change.